

Notice of Allowability	Application No.	Applicant(s)
	10/648,008	JIN ET AL.
	Examiner Mark A. X Radtke	Art Unit 2165

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS**. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to the RCE filed 8 January 2007.
2. The allowed claim(s) is/are 1-4,6-8,10-14,16-18,20-24,26-28 and 30.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

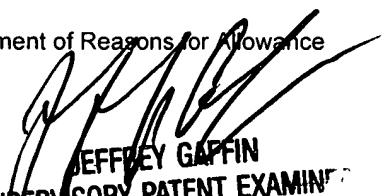
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application
6. Interview Summary (PTO-413),
Paper No./Mail Date _____
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.


JEFFREY GAFFIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2105

DETAILED ACTION

Remarks

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5 December 2006 has been entered.
2. In response to communications filed on 1 January 2007, claim(s) 5, 9, 19, 25 and 29 is/are cancelled and claim(s) 1, 7, 11, 17, 21 and 27 is/are amended per Applicant's request. Therefore, claims 1-4, 6-8, 10-14, 16-18, 20-24, 26-28 and 30 are presently pending in the application, of which, claim(s) 1, 7, 11, 17, 21 and 27 is/are presented in independent form.

Allowable Subject Matter

3. Claims 1-4, 6-8, 10-14, 16-18, 20-24, 26-28 and 30 are allowed over the prior art made of record.

4. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record, Thusoo et al. (U.S. Pat. No. 7,016,903), do not disclose, teach, or suggest the claimed limitations of (in combination with all other features in the claim):

"wherein input duplicates are appended to the first structure and index entries for the input duplicates are stored in a second structure, wherein an insert row is a row to be added to the first structure and an update row is an update to an existing row in the first structure, wherein input duplicates are duplicate input rows having a same primary key value", as claimed in claim 1 and claimed equivalently in claims 7, 11, 17, 21 and 27.

These aspects of the instant invention relate to the manner in which update rows are handled. In the prior art, database tables usually enforce "referential integrity", a well-known concept in the art of database programming that requires every row in a table have a unique index key. In the case of the instant invention, different versions of input duplicate rows may occur multiple times in the first and second structure. This behavior "breaks" the referential integrity constraint, and provides a novel aspect to the invention.

Conclusion

5. Any inquiry concerning this communication or earlier communications should be directed to the examiner, Mark A. Radtke. The examiner's telephone number is (571) 272-7163, and the examiner can normally be reached between 9 AM and 5 PM, Monday through Friday.

If attempts to contact the examiner are unsuccessful, the examiner's supervisor, Jeffrey Gaffin, can be reached at (571) 272-4146.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service at (800) 786-9199.

maxr

22 March 2007

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